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International Mini-symposium

Vascular Immunity, Inflammation and Atherosclerosis - Today!

This mini-symposium offers an update of the progress in the field of vascular immunity, inflammation and atherosclerosis that has been achieved in recent years. Scheduled are lectures by internationally recognized investigators who will highlight new developments and knowledge in basic, translational and clinical sciences of the mechanisms that promote migration of leukocytes into inflamed tissue, and the consequences of those interactions for the promotion and regression of inflammation. The ultimate goal of this session is to elicit critical scientific exchange and collaboration for future research.

Two of the featured speakers and their talks are **Göran K Hansson, Karolinska Institutet** - "Frying fat in the artery wall - Immune inflammation triggered by LDL" and **Peter Libby, Harvard Medical School and Brigham and Women's Hospital** - "Immunity and inflammation in atherosclerosis-no longer just a theory."

The mini-symposium is taking place on January 27, 1:30-6:30pmCET.

More information [can be found here](#)

To register, send an email to:

athero.immuno.symposium@gmail.com with your name, title and affiliation

NAVBO Session at ASIP 2022 at EB

ASIP Annual Meeting at Experimental Biology Philadelphia, PA - April 2-5, 2022

This is the last Experimental Biology meeting, but the American Society for Investigative Pathology promises an exciting program featuring basic and translational research talks presented by well-known senior and up-and-coming junior scientists and trainees, organized by the ASIP 2022 Program Committee in collaboration with their membership, Scientific Interest Groups, and guest societies – *American College of Veterinary Pathologists (ACVP)*, *American Society for Matrix Biology (ASMB)*, *American Physician Scientists Association (ASPA)*, *Histochemical Society (HCS)*, *National Association of Medical Examiners (NAME)*, **North American Vascular Biology Organization (NAVBO)**, *Società Italiana di Patologia e Medicina Traslazionale/Italian Society of Pathology and Translational Medicine (SIPMeT)*, *Society for Cardiovascular Pathology (SCVP)* and the *Society of Toxicologic Pathology (STP)*.

The 2022 ASIP Annual Meeting includes sessions communicating cutting edge science and translational research, commingled with educational, professional development, and diversity enhancement sessions that will appeal to trainees and junior and senior faculty. As a reflection of the research interests of the ASIP membership, symposia, workshops, mini-symposia, poster blitz, and poster sessions will focus on the latest science in liver pathobiology, neuropathology, gene expression regulation, inflammation, immunopathology, cardiovascular biology, neoplasia, endothelial and epithelial cell biology, fundamental cell biology, artificial intelligence, and big data science.

[For more information, click here.](#)

Early bird registration closes 2/28/22

NAVBO session at ASIP 2022:

[At the Intersection: Cell-Matrix Interactions in Vascular Development and Disease](#)

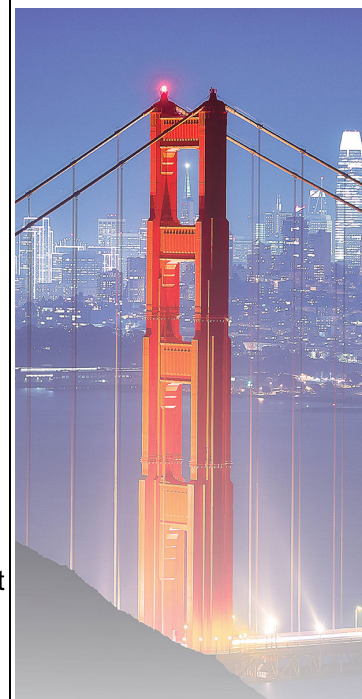
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Meetings/Events



Webinars - 1st Thursday
InFocus Sessions - 2nd and 4th Thursdays
Journal Clubs - 3rd Thursdays
Special Sessions on Tuesdays
 (check schedule)



22nd International Vascular Biology Meeting
San Francisco Bay Area
 October 13-17, 2022



www.ivbm2022.org

Chair/Organizer: Beth Kozel, MD, PhD • NHLBI/NIH

Tuesday, April 5 at 2:00pm

Presentations:

Temporal and Cell-type Specific Roles of Fibronectin During Formation and Remodeling of the Aortic Arch

Sophie Astrof, PhD, Rutgers University

New Genetic Markers of Endothelial Invasion in Collagen Matrices

Kayla Bayless, PhD, Texas A&M College of Medicine

Functions of Extracellular Matrix Glycoproteins in the Aortic Wall

Dieter Reinhardt, PhD, McGill University

Of Mice and Men: Consequences of Elastic Fiber Disease

Beth Kozel, MD, PhD, NHLBI/NIH

Seeking Proposals for Symposia

We're Looking for a March Symposium - Submit Your Proposal Soon!

NAVBO Regular Members are invited to submit a proposal for consideration as an Online Symposium. Our goals in this regard are two-fold: to bring additional, timely and member-initiated topics to the vascular biology community and to promote diversity, equity and inclusion.

These symposia are usually three experts on a single topic. The member that proposes the session will also moderate/chair the session.

To submit your proposal complete the online form [found here](#).

New: Terms and Conditions

The NAVBO Council has approved Terms and Conditions, which we are asking all members to agree to follow. New members will agree to these terms when applying to NAVBO. Existing members will be asked to agree to the Terms and Conditions via a future email.

We are confident that NAVBO members conduct themselves in accordance with these terms in their day to day lives, however, we want all members to see that NAVBO has taken the appropriate steps to deal with any situation that may cause discomfort to any member or anyone participating in a NAVBO activity.

These terms are accessible along with our Privacy Policy, our DEI Statement of Commitment and our meetings' Code of Conduct on this page of our web site: <https://www.navbo.org/policies>

Call for Award Nominations



Florence R. Sabin Award



Stephen Schwartz Award

Nominations are now being accepted for these awards through March 15, 2022.

As you know, the Stephen M. Schwartz Award recognizes an outstanding mentor, characterized by our 2021 recipient, Brant Weinstein of NICHD/NIH. Current and prior trainees should nominate their mentors.

Our newest award, the Florence Sabin Award, recognizes an individual, like Dr. Sabin, who has championed an underrepresented group. Candidates must have distinguished themselves in at least one of the following areas: promoting diversity, equity, and inclusion in social issues which benefit underrepresented groups, public health, or public service to the broader community, in addition to their scientific/clinical accomplishments.

[Click here for information about nominating a colleague.](#)

Member Scholarships for Students

NAVBO's **Advancing Young Voices through Diversity and Inclusion Program (AYVDI)** supports diversity and inclusion efforts at the undergraduate and graduate student career stages. To date, this program has supported the trainee membership of 50 students.

We want to continue to increase diversity and inclusion within the vascular biology community, expose more young scientists to the field of vascular biology, and to bring more trainees into this collaborative community. Therefore, we are extending the offer of

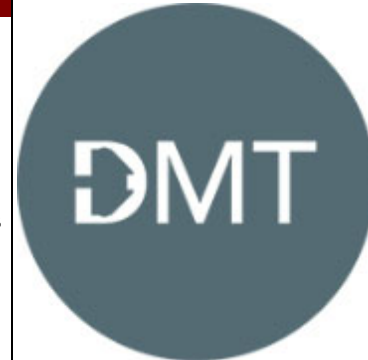
Webinar Series



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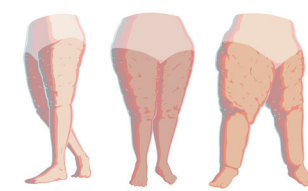
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Brigham and Women's Hospital
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free membership to students who are members of populations that are not well represented in vascular biology, including but not limited to Black/African American, Latinx/Hispanic, Indigenous Peoples of America/Native American (including Native Hawaiian and Alaskan), and LGBTQ+. We would also like to extend this offer to students who may be at a financial disadvantage and would benefit from this opportunity.

In order to take advantage of this offer, complete this [application form](#).

Please share this information with your students and colleagues.

Lessons Learned



Dr. Miranda Good is an Assistant Professor of Medicine at the Molecular Cardiology Research Institute at Tufts Medical Center in Boston. She started out at the University of Arizona where she completed both her undergraduate and PhD in the laboratory of Dr. Janis Burt, PhD. She began her post-doctoral work in Dr. Brant Isakson's laboratory at the University of Virginia where she received an F32 and then a K99/R00. Dr. Good transitioned to the R00 and started her own laboratory in January 2020 at Tufts Medical Center.

Dr. Good shares a few lessons that she has learned and she believes there will be many more to come. She notes that everyone's journeys are all different, and she hopes we can continue embracing all our different paths and encourage each other to keep doing amazing science!

She covers the following ideas - Go with the flow!, Problem solving, Scientific environment is more important than scientific topic and Science is not 24/7. Her final advice - Keep calm and science on!

[Read her valuable lessons learned here!](#)

Lab of the Month



Lab of the Month - January 2022

The Lab of Dr. Miranda Good

This month we are highlighting the lab of Dr. Miranda Good, who is an Assistant Professor at Tufts Medical Center. Find out more about Dr. Good's lab by visiting [her page](#) in our Lab of the Month listing.

Member News

Welcome to our New Members:

Tanyeri Barak, Yale University
Di Chen, University of Michigan
Rakesh Jain, Massachusetts General Hospital
Solomon Mensah, Worcester Polytechnic Institute
William Polacheck, University of North Carolina at Chapel Hill

If you have news to share with your colleagues, send it to membership@navbo.org

Summer Programs

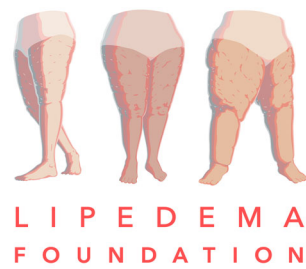
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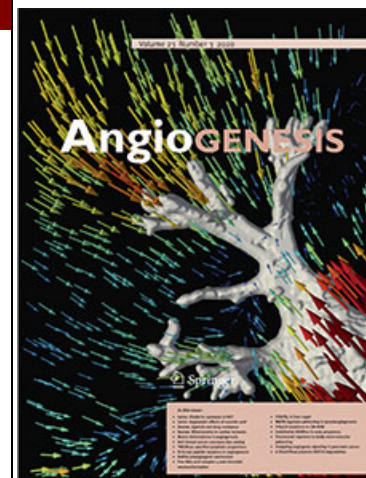


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PRIDE CVD-CGE

Cardiovascular Disease Comorbidities, Genetics and Epidemiology
July 11-27, 2022 at the University of Washington in St. Louis

The NHLBI-funded “Programs to Increase Diversity Among Individuals Engaged in Health-Related Research” support junior faculty underrepresented in biomedical research.

Space is limited for the mentored program starting summer 2022.

Apply early!

[Learn more . . .](#)



Children’s Hospital of Pittsburgh offers an eight-week paid summer internship program designed for undergraduate students from underrepresented groups from any college or university who wish to learn the rationale, design strategies, methods and other aspects of biomedical research by engaging in studies related to the heart, lung and blood fields under the direct supervision of experienced researchers.

Applications for the 2022 program will be available on-line at www.chp.edu in early January 2022. Selected participants are notified in April. The 2022 program will commence in June and conclude at the end of July. Participants are expected to complete the 8-week program. Housing is provided.

Please [download the flyer](#) and post it.

[Learn more . . .](#)

Spotlight on Trainees

NIH gauges value of MD/PhD programs on long-term trainee success

As part of its ongoing efforts to assess of benefits of dual-degree medical education, NIH’s Office of Extramural Research has [released results](#) of an analysis focused on the experiences of >33,000 predoctoral trainees, including M.D./Ph.D. (or equivalent) who were enrolled in NIH-funded institutional training programs and voluntarily reported their age, gender, race and ethnicity. Those surveyed included trainees affiliated with either a [Medical Scientist Training Program](#) or other T32 pre-doctoral training programs who began their training between 1975 and 1998. Trainees enrolled in MSTP programs were more successful in subsequently receiving research program grant awards as PIs, but only after 15 or more years had passed, perhaps reflecting time needed to complete clinical training. Trainees who enrolled before 1985 – thus entering the system around the time of the NIH budget doubling – likewise were more successful. While confounding variables do exist (non-NIH funding availability, institutional standing, intrinsic trainee aptitude, etc.), the findings favor continued support for dual-degree programs.

Originally published in our January 13 issue

Recent Member Publications

Cysteine oxidation of copper transporter CTR1 drives VEGFR2 signalling and angiogenesis

Nature Cell Biology

Vascular endothelial growth factor receptor type 2 (VEGFR2, also known as KDR and FLK1) signalling in endothelial cells (ECs) is essential for developmental and reparative angiogenesis. Reactive oxygen species and copper (Cu) are also involved in these processes. However, their inter-relationship is poorly understood.

[Read more](#)

Robust genome editing in adult vascular endothelium by nanoparticle delivery of CRISPR-Cas9 plasmid DNA

Cell Reports

Vascular endothelium plays a crucial role in vascular homeostasis and tissue fluid balance. To target endothelium for robust genome editing, we developed poly(ethylene glycol) methyl ether-block-poly(lactide-co-glycolide) (PEG-b-PLGA) copolymer-based nanoparticle formulated with polyethyleneimine. [Read more](#)

Dysfunctional Vascular Endothelium as a Driver of Atherosclerosis: Emerging Insights Into Pathogenesis and Treatment

Frontiers in Pharmacology

Atherosclerosis, the chronic accumulation of cholesterol-rich plaque within arteries, is associated with a broad spectrum of cardiovascular diseases including myocardial infarction, aortic aneurysm, peripheral vascular disease, and stroke. Atherosclerotic cardiovascular disease remains a leading cause of mortality in high-income countries and recent years have witnessed a notable increase in prevalence within low- and middle-income regions of the world. [Read more](#)

Activation of Smad2/3 signaling by low fluid shear stress mediates artery inward remodeling

PNAS

Endothelial cell (EC) sensing of wall fluid shear stress (FSS) from blood flow governs vessel remodeling to maintain FSS at a specific magnitude or set point in healthy vessels. Low FSS triggers inward remodeling to restore normal FSS but the regulatory mechanisms are unknown. [Read more](#)

MEKK3–TGF β crosstalk regulates inward arterial remodeling

PNAS

Arterial remodeling is an important adaptive mechanism that maintains normal fluid shear stress in a variety of physiologic and pathologic conditions. Inward remodeling, a process that leads to reduction in arterial diameter, plays a critical role in progression of such common diseases as hypertension and atherosclerosis. [Read more](#)

Tyrosine phosphorylation of S1PR1 leads to chaperone BiP-mediated import to the endoplasmic reticulum

Journal of Cell Biology

Cell surface G protein-coupled receptors (GPCRs), upon agonist binding, undergo serine-threonine phosphorylation, leading to either receptor recycling or degradation. Here, we show a new fate of GPCRs, exemplified by ER retention of sphingosine-1-phosphate receptor 1 (S1PR1). [Read more](#)

If you have a recent paper that you would like to share with NAVBO NewsBEAT subscribers, send the title and link to membership@navbo.org. *Please note, only papers authored by current NAVBO members are accepted for inclusion.*

Industry News

AAMC invites nominations for 2022 awards

The American Association of Medical Colleges annually celebrates outstanding contributions to medical education, patient care, life sciences research, and community engagement. Nominations are now open for a family of awards, including those recognizing [Excellence in Medical Education](#) and [Distinguished Research in the Biomedical Sciences](#). Guidelines for submission of nominations (due Jan. 28, 2022) and selection criteria for these and other AAMC awards can be found at aamc.org/awards. Awardees in 2021 included NIH luminaries Francis Collins and Anthony Fauci, as well as cancer immunotherapy pioneer Suzanne Topalian.

'Humanized' pig heart transplanted into heart failure patient

The New York Times [reports](#) that the blood circulation of a 57-year-old patient is being largely driven by a genetically-modified pig heart that he received on January 6, 2022. The donor animal had a total of 10 genetic modifications, including knock-out of the alpha-1,3-galactosyltransferase associated with aggressive host versus graft response. Long-term outcome remains uncertain, but the patient has tolerated the xenotransplantation successfully thus far. Hopes are high that this approach to creating transplantable tissue can help alleviate the dire shortage of donor organs: on average, a dozen people die each day while awaiting transplant.

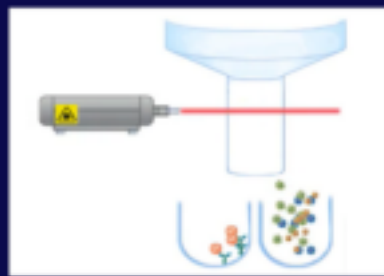
COVID-19 considerations for spring 2022 NIH grant applications

Investigators preparing to submit [NIH grant applications for spring 2022](#) due dates are advised that applications should *not* include contingency or recovery plans for problems resulting from the COVID-19 pandemic. Instead, applicants have the opportunity to address pandemic impacts on scoreable issues in the biosketch's personal statement; reviewers will be instructed to weigh these impacts when scoring applications. In addition, NIH has also extended the deadline for submitting post-submission materials, including preliminary data.

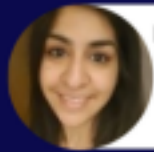
Originally published in our January 13 issue

Call for Papers

Emerging Methods in Profiling Endothelial Cells at Single-Cell Resolution



Zhen B. Chen
City of Hope,
Department of Diabetes
Complications and
Metabolism



Naseeb Kaur Malhi
City of Hope,
Department of Diabetes
Complications and
Metabolism

JOVE | Methods Collections

Are you using leading-edge techniques to profile endothelial cells at single-cell resolution? Consider submitting your work to a new JoVE collection guest-edited by NAVBO members, **Dr Zhen Bouman Chen** (2020 Springer Junior Investigator Award winner) and Dr. **Naseeb Malhi** at City of Hope! For more information or to submit an abstract, please email zhenchen@coh.org or [follow this link](#).

There is a new Research Topic titled **Brain Arteriovenous Malformations: Cerebrovasculature Behaving Badly**, in the journal *Frontiers in Human Neuroscience*, organized by **Richard Daneman**, Marcus Stoodley and **Lori Shoemaker**.

Our goal is to highlight advances in AVM research from the laboratory to the clinic, and to suggest where gaps remain. We also intend to place AVMs in the context of neurovascular development and the complex interactions of cell types within the vasculature and the brain.

We invite high-level original research articles, novel models or imaging methods, focused reviews, hypotheses/theories, and insight/opinion articles. Please consider contributing an article to this topic – it will be a valuable resource for the field. All the details can be found at: <https://www.frontiersin.org/research-topics/30037/brain-arteriovenous-malformations-cerebrovasculature-behaving-badly>

Calendar of Events

January 27, 2022	International Mini-Symposium - Vascular Immunity, Inflammation and Atherosclerosis
February 3, 2022	Webinar Featuring George Truskey
February 10, 2022	InFocus - Vascular Control of Organ Function
March 3, 2022	Webinar Featuring Paolo Madeddu
March 18-19, 2022	4th Annual Gulf Coast Vascular Research Consortium
April 2 - 5, 2022	ASIP Annual Meeting at Experimental Biology 2022
October 13-17, 2022	22nd International Vascular Biology Meeting
October 24 - 27, 2022	Critical Issues in Tumor Microenvironment: Angiogenesis, Metastasis and Immunology

[Visit the NAVBO Calendar of Events for more meetings](#)



Job Postings

Job Title	Company	Location
Postdoctoral Fellow – Cardiovascular Biology	University of Pittsburgh	Pittsburgh, PA
Postdoctoral Position in Vascular Research at Northwestern University	Northwestern University	Chicago, IL
Postdoctoral Fellows	University of Michigan	Ann Arbor, MI
Postdoctoral Researcher	University of Pennsylvania	Philadelphia, PA
Postdoctoral Fellow	Alpert Medical School at Brown University	Providence, RI

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